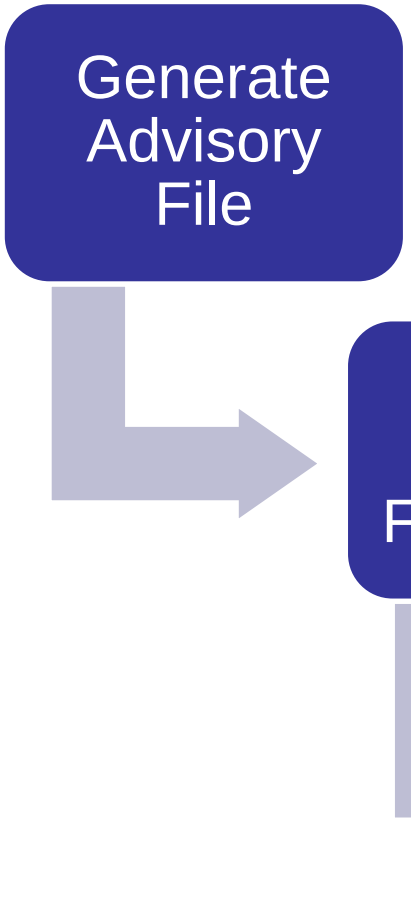
U.S. Department of Transportation

Connected Vehicle PlugFest

Traveler Situation Data

Southeast Michigan Connected Vehicle Test Bed Project 2014

RSE 3.0



- Determine Broadcast Strategy
- Encode message
- Each file represents 1 Advisory Message

Requires operations personnel to determine\understand the broadcast strategy (i.e. PSID, DSRC Channel, Transmit Mode (Continuous or Alternating), message priority, signature, encryption, etc.)

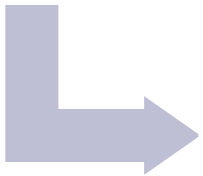
- Log into RSU
- Install file(s) in appropriate Directory

Requires operations personnel to have direct access to all RSUs and be knowledgeable in the operations of RSUs from multiple vendors.

- Broadcast by the RSU as DSRC WSMP Messages according to the broadcast instructions

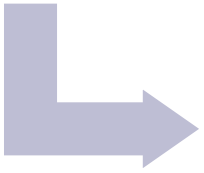
2014 Architecture

- Encode message

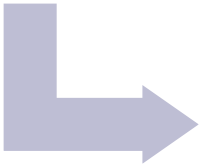


- Through the *RH traveler situation data deposit* interface

- Automates the message distribution process
- Situation Data Warehouse (SDW) assigns broadcast instructions\strategy based on message type
- Reduces knowledge base requirement of operations personnel
- Requires personnel to only have access to a single location (SDW)

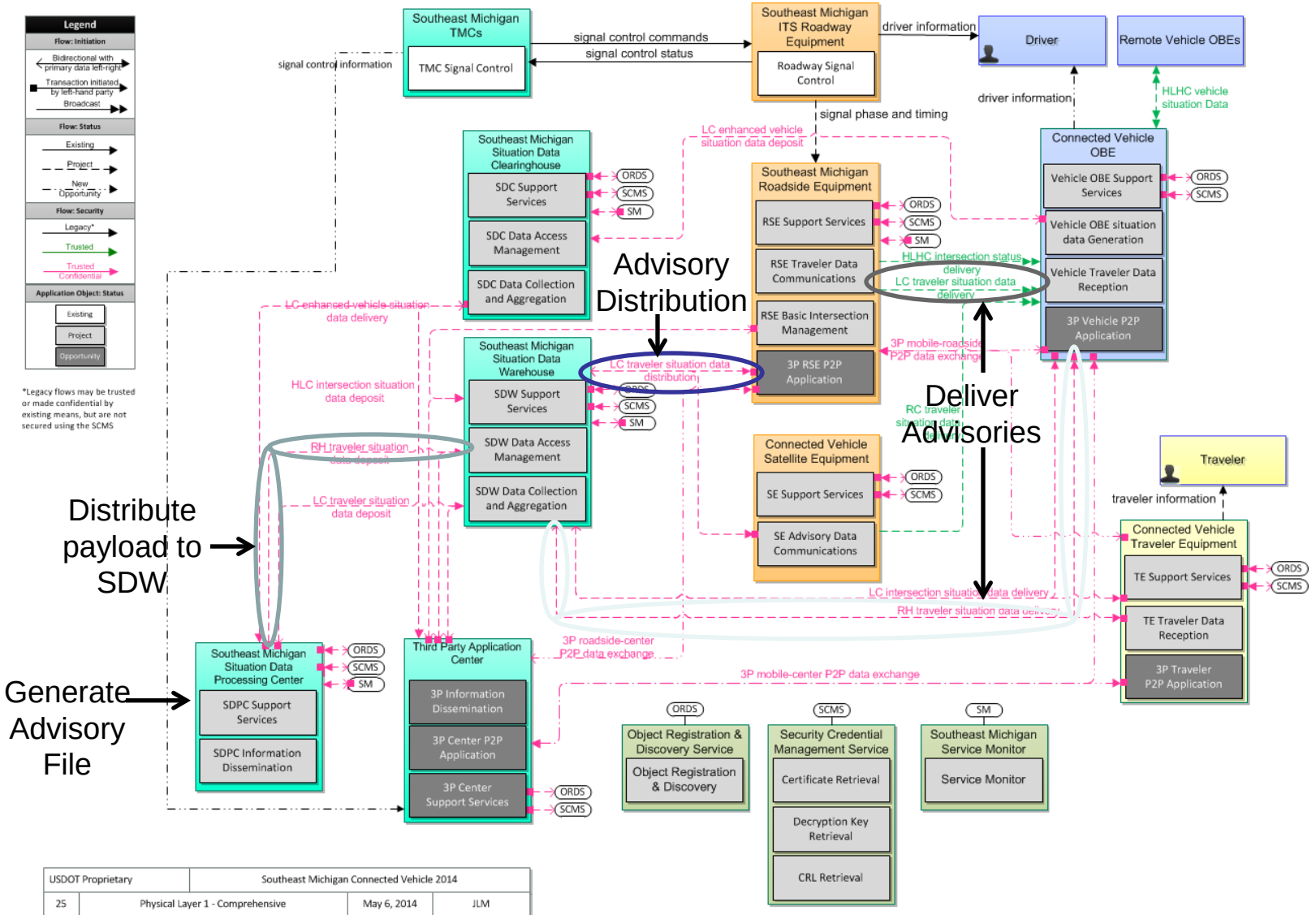


- Through the *LC traveler situation data distribution* interface for broadcast by RSU
- Or through the *RH traveler situation data delivery* interface for IP distribution directly to vehicles



- Through the *LC traveler situation data delivery* interface for broadcast by RSU as DSRC WSMP Messages, according to broadcast instructions
- Vehicles request bundles of advisories for a given, broader, geographical region, via IP

2014 Architecture



USDOT Proprietary	Southeast Michigan Connected Vehicle 2014		
25	Physical Layer 1 - Comprehensive	May 6, 2014	JLM

Traveler Situation Data Tool